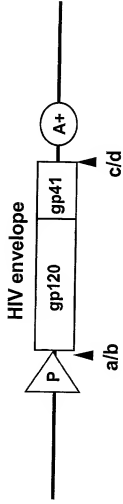


PhenoSense HIV Entry Assay

Envelope Expression Vector: pHIVenv



HIV-1 Expression Vector: pHIVlucΔU3

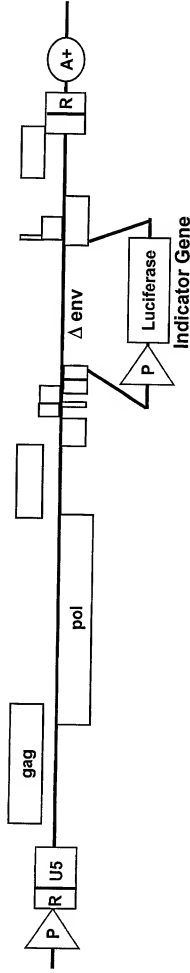


Fig. 1A



HIV Envelope Expression Strategies

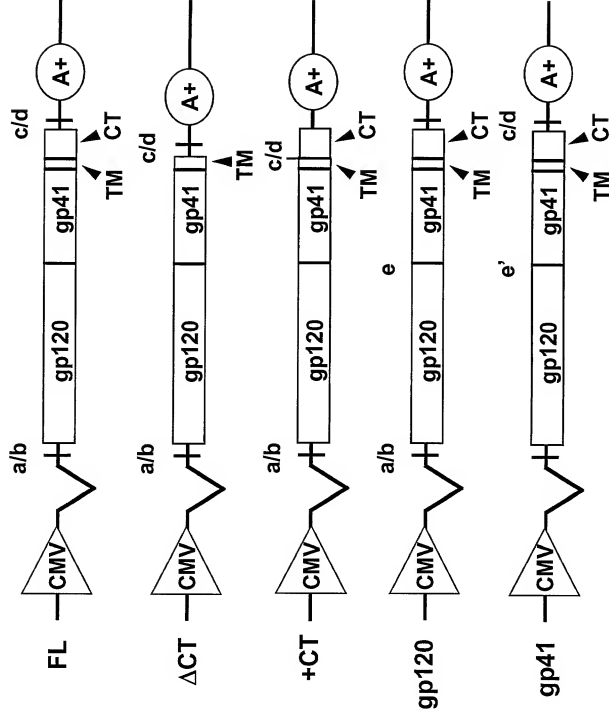


Fig. 2

Co-Receptor Tropism Screen

CCR5-expressing cells

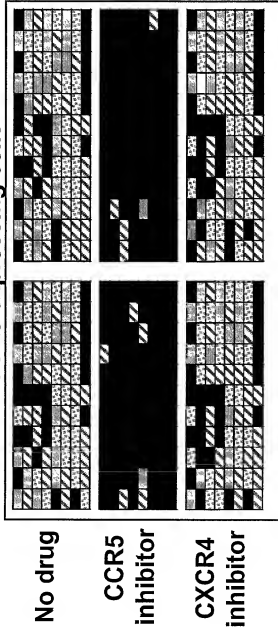
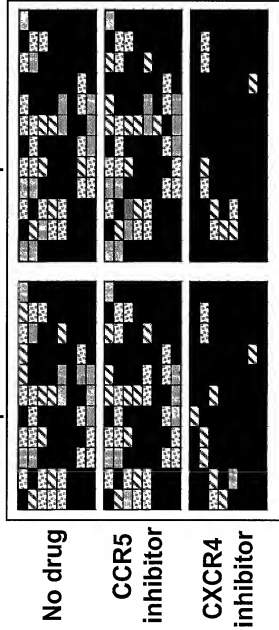


Fig. 3A

<100 RLU
100-1000 RLU
1000-10,000 RLU
>10,000 RLU

Replicate 2

Replicate 1



CXCR4-expressing cells

Co-Receptor Tropism Assay Interpretation

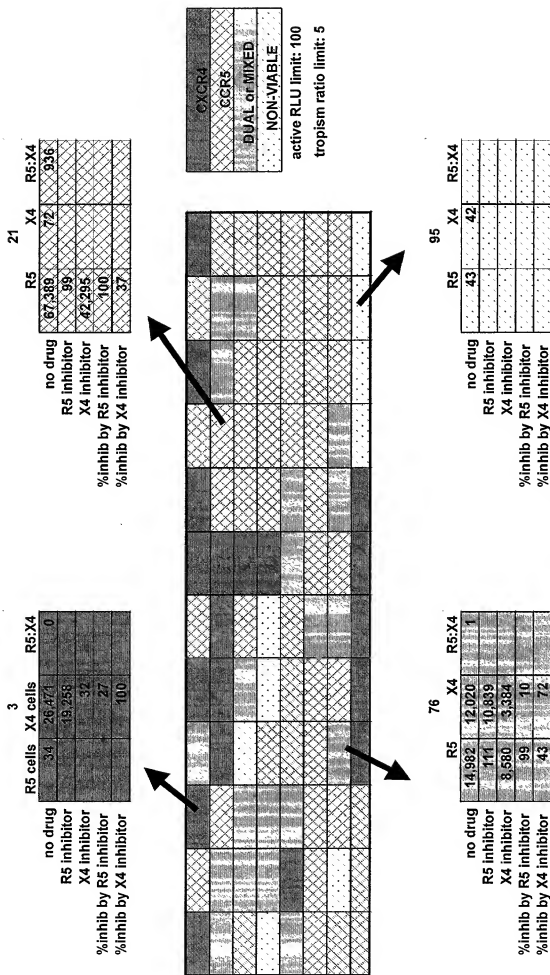


Fig. 3B



Entry Inhibitor Susceptibility: Fusion Inhibitor

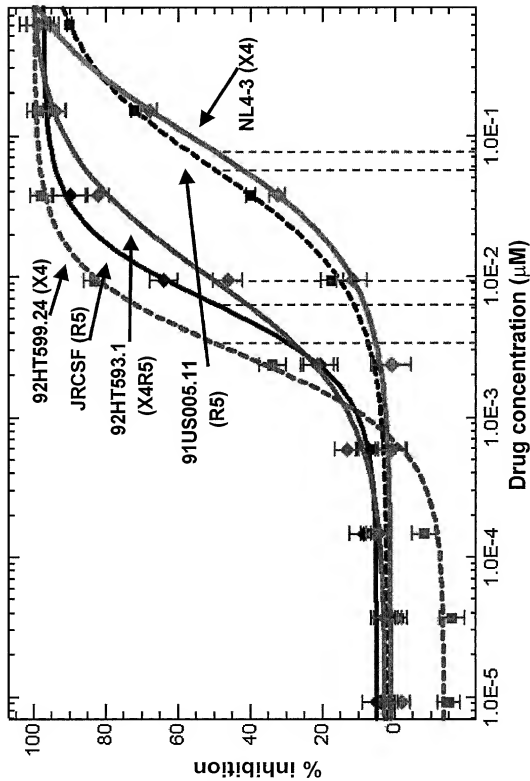


Fig. 4A

Reduced Susceptibility: Fusion Inhibitor

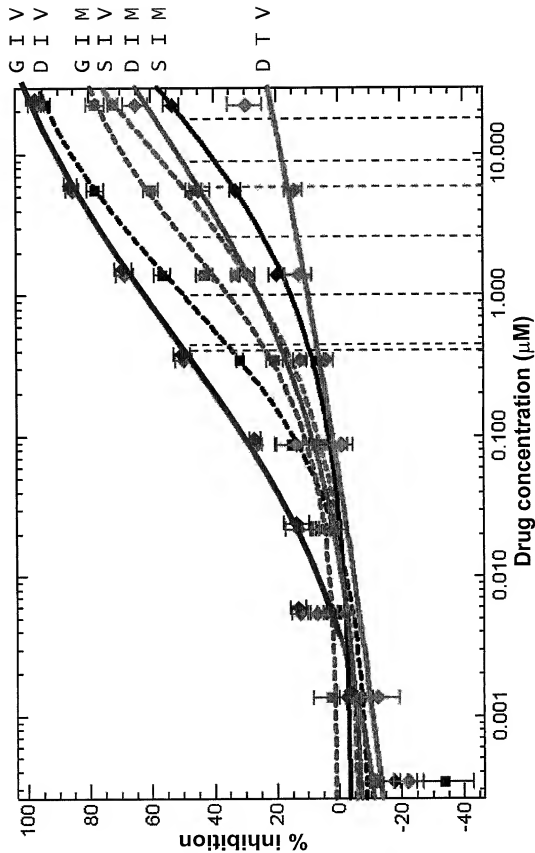


Fig. 4B

Entry Inhibitor Susceptibility: CCR5 Inhibitor

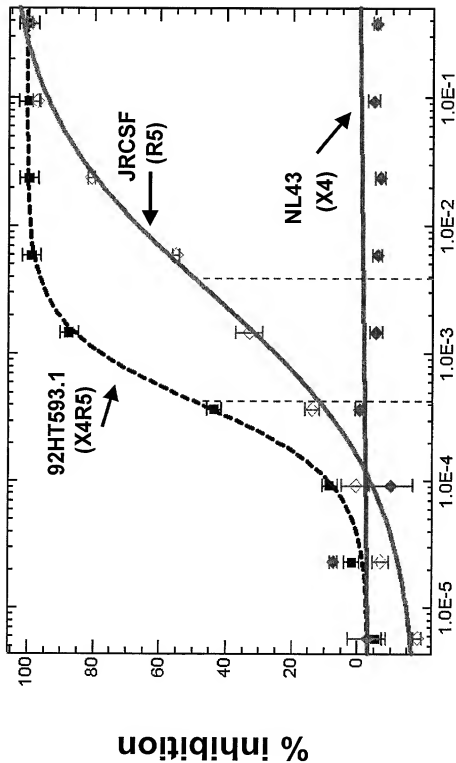


Fig. 5A

Drug: R5 Inhibitor
Cell: CD4/CCR5



Entry Inhibitor Susceptibility: CXCR4 Inhibitor

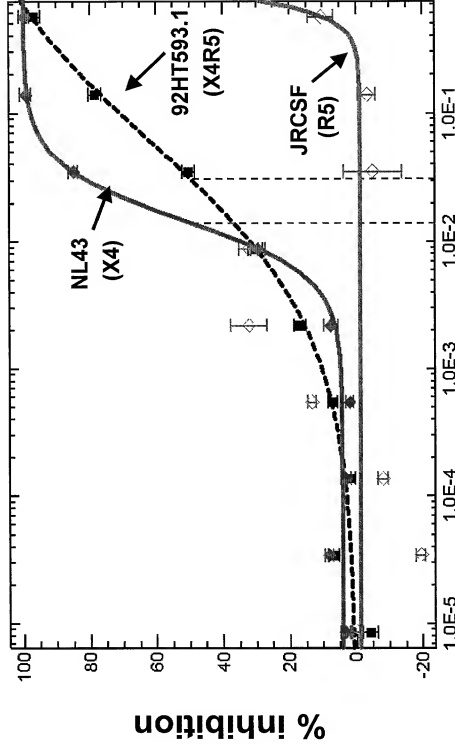
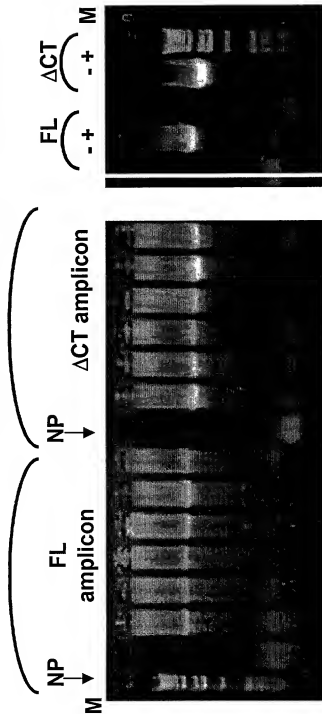


Fig. 5B

Drug: X4 Inhibitor
Cell: CD4/CXCR4



Envelope Sequence Amplification



1. R5
 2. R5/X4
 3. R5
 4. R5/X4
 5. R5
 6. R5/X4
- NP: HIV
negative plasma

1 2 3 4 5 6

Co-Receptor Tropism

X4

R5

X4/R5

Undefined

of isolates

15

24

15

35

Envelope Subtype

Clade A

Clade B

Clade C

Clade D

Clade E

of isolate

2

76

7

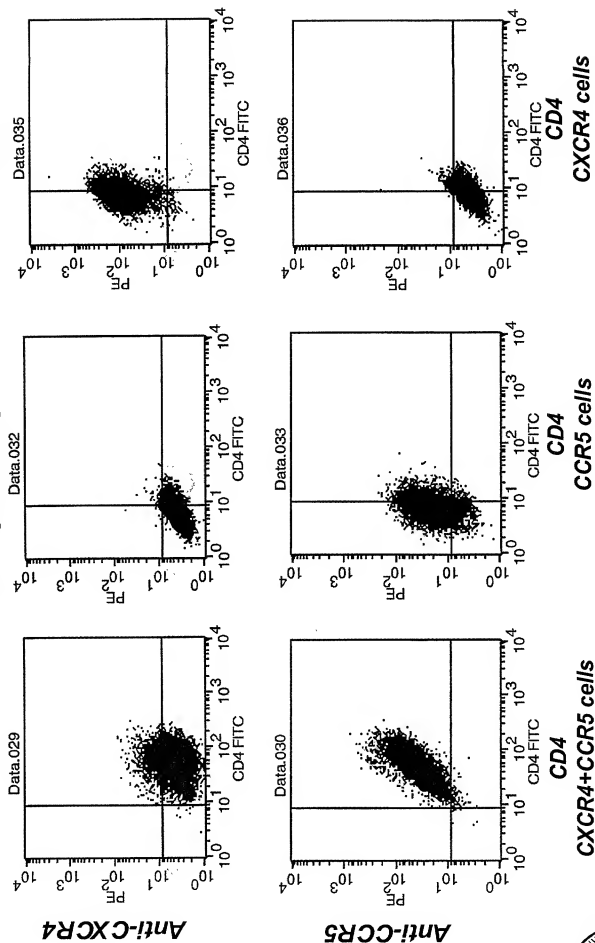
1

3

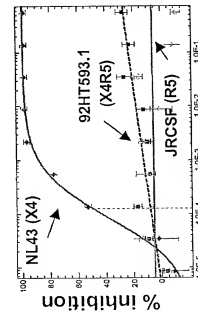
Fig. 6

Target Cell Receptor and Co-Receptor Expression

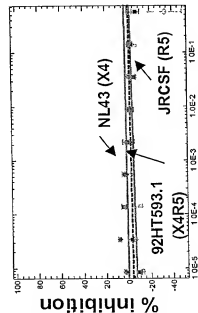
Fig. 7



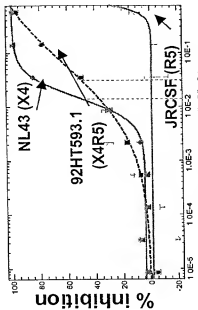
Inhibition By Co-Receptor Antagonists



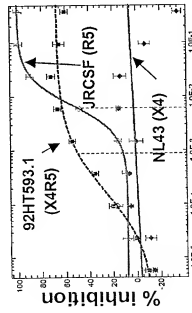
Drug: X4 Inhibitor
Co-receptor: X4, R5



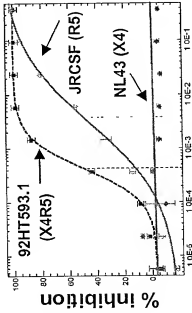
Drug: X4 Inhibitor
Co-receptor: R5



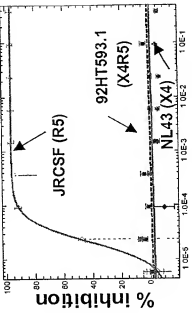
Drug: X4 Inhibitor
Co-receptor: X4



Drug: R5 Inhibitor
Co-receptor: X4, R5



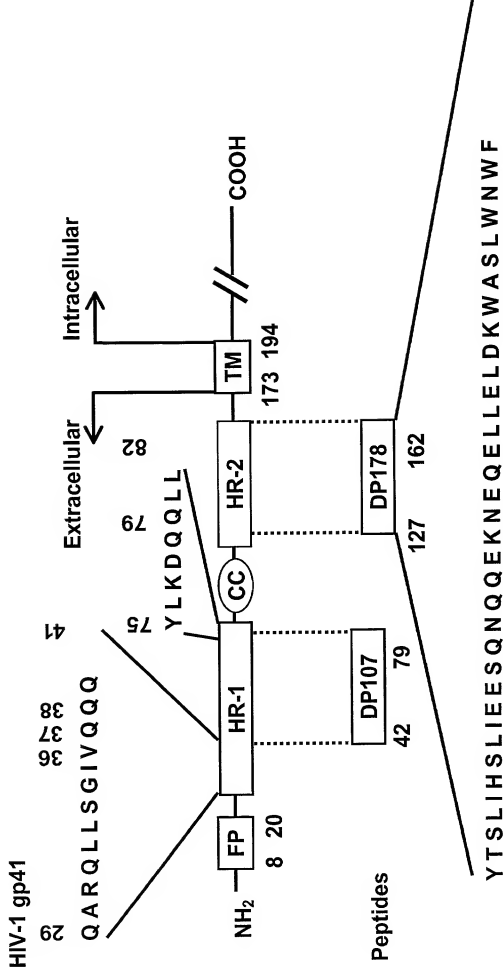
Drug: R5 Inhibitor
Co-receptor: R5



Drug: R5 Inhibitor
Co-receptor: X4

Fig. 8

Fusion Inhibitor Peptides



Rimsky, et al., J. Virol. 72 (2):986-993

Fig. 9



Patient Virus v. Patient Antibody

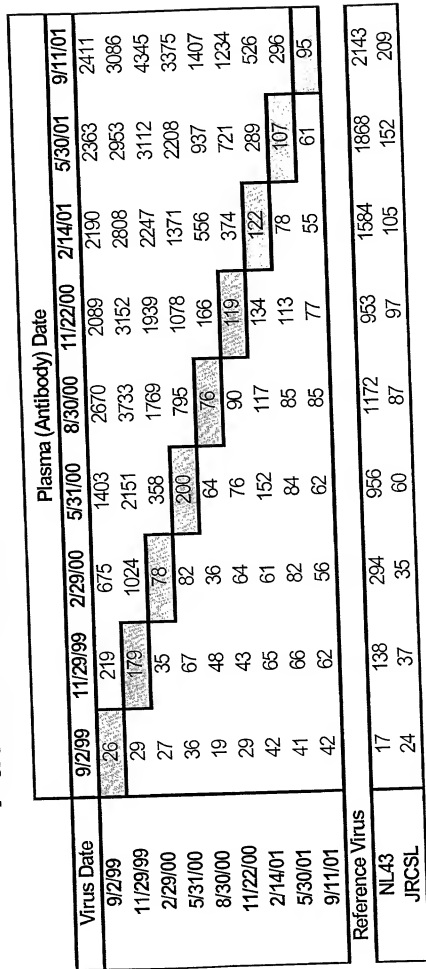


Fig. 10